**Shiveta**

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# Objective

# Microbiologist with the background as a Plant Pathologist and Medical Microbiologist looking to join a growing entrepreneurial organization as a part of the Executive team.

# Skills

* Familiarized with the use of various molecular techniques like Isolation of DNA, Polymerase chain reaction (PCR), etc.
* Trained in sampling and analysis of blood, urine and stool for various bacteriological and serological testing.
* Familiarized with 16S rRNA gene sequencing, phylogenetic analysis, whole cell fatty acid analysis (FAME), VITEK2, MALDI-Biotyper and OMNILOG systems
* Good Knowledge of computer operations like Microsoft Office, data management and statistical analysis tools like SAS and SPSS.
* Good writing, analytical, leadership and interactional skills.

# Work Experience

* Punjab agricultural University, Department of Plant Pathology, Ludhiana (*P.B*.), India. **Dec. 2013** to **March 2018.**

1. Research Fellow (25.10.2017 – 5.03.2018)

Project: Evaluation of Bio-efficacy of Azoxystrobin 8.3 + Mancozeb 66.7% WG (Advancerglow) on Soyabean.

1. Research Fellow (25.05.2017 – 23.08.2017)

Project: Evaluation of Bio-efficacy of Milastin K (*Bacillus subtitlis* KTSB 1015) against Bacterial blight in Pomegranate

1. Research Fellow (01.04.2016 to 31.03.2017)

Project: Evaluation of Bio-efficacy of Milastin K (*Bacillus subtitlis* KTSB 1015) against Powdery and Downy mildew in Grapes

1. Research Fellow(16.07.2015 to 31.03.2016)

Project: Bio-efficacy testing of bio-fungicide Actinovate AG (*Streptomyces* spp.) in paddy for the control of foliar disease.

1. Research fellow (19.12.2013 to 31.06.2015)

Project: Management of bakanae disease, Bacterial leaf blight of paddy and root rot of BT cotton through use of bio-pesticides

# Publications

1. Ajay Kumar Choudhary, Narinder Singh, Daljeet Singh and **Shiveta Raina.** 2019.  Bioefficacy of various strains of *Trichoderma* and *Pseudomonas* spp. against damping-off of cauliflower. The Indian Journal of Agricultural Sciences. **89(2)**:231-237
2. Sukhman Kaur, Narinder Singh, **Shiveta Raina** and Daljeet Singh. 2018. Biological approaches for the management of *Streptomyces setonii* Waksman causing common scab of potato. Agricultural Research Journal. **55(1)**: 104-112
3. Sukhman Kaur, Narinder Singh, **Shiveta Raina,** Ajay K. Chaudhary and Daljeet Singh.2017. Shelf life study of the talc based bioformulation of the *Trichoderma* *asperellum* Samuels, Lieckf. & Nirenberg and *Pseudomonas fluorescens* Migula, bioagents of plant pathogens. Plant Disease Research. **32(2)**: 182-185
4. Ahmed Ibrahim A. I. Heflish, Narinder Singh, **Shiveta Raina** and Daljeet Singh. 2017. Evaluation of *Pseudomonas fluorescens* Migula isolates against *Rhizoctonia solani* and *Rhizoctonia oryzae* causing sheath blight of rice. Plant Disease Research. **32(2)**: 168-176
5. Ahmed Ibrahim A. I. Heflish, Narinder Singh, **Shiveta Raina** and Daljeet Singh. 2017. Evaluation of *Trichoderma* isolates against *Rhizoctonia solani* and *Rhizoctonia oryzae* causing sheath blight of rice. Plant Disease Research. **32(1)**: 36-46.
6. Narinder Singh, **Shiveta Raina**, Daljeet Singh, Moumita Ghosh and Ahmed Ibrahim. A. I.Heflish. 2017. Exploitation of promising native strains of *Bacillus subtilis* Cohn with antagonistic properties against fungal pathogens and their PGPR characteristics. Journal of Plant Pathology.**99(1)**: 27-35.
7. Narinder Singh, Moumita Ghosh, Daljeet Singh, **Shiveta Raina** and Ahmed Ibrahim. A. I.Heflish. 2015. Biocontrol activity of indiginous *Pseudomonas fluorescens* Migula strains against fungal plant pathogens. Journal of Pure and Applied Microbiology. **9(3)**: 2255-2262.
8. Chetan Sharma, Amarjeet Kaur, S. S. Thind, Baljit Singh and **Shiveta Raina**. 2015. Advanced glycation End-products (AGEs): an emerging concern for processed food industries. Journal of Food Science and Technology. **52(12)**: 7561-7576.

# Seminars & Presentations

1. Narinder Singh, Moumita Ghosh, Daljeet Singh, **Shiveta Raina** and Ahmed Ibrahim A. I. Heflish. Poster, Bioefficacy of indigenous *Pseudomonas fluorescens* strains against fungal pathogens. Poster presentation in the National Symposium on Agrochemicals for Food and Environment Safety New Delhi, India January **2015**.
2. **Shiveta Raina**, H.S Sodhi and Shikha Sethi. Identification of Ergosterol in Mushrooms. Abstract, 8th International Conference on Mushroom Biology and Mushroom Products (ICMBMP8). New Delhi, India; **2014**.
3. **Shiveta Raina**, H.S.Sodhi and S. Kapoor. Antimicrobial activity of cultivable mushroom. Poster presentation in 54th Annual Conference of Association of Microbiologists of India. Maharishi Dayanand University, Rohtak, Haryana, India; November **2013**.
4. **Shiveta Raina**, Anjana Rai and H.S Sodhi. Selection of medium for optimum growth of basidiomycete’s fungi. Poster presentation in Indian Mushroom Conference, Punjab Agricultural University, Ludhiana, Punjab, India; April **2013**.

# Education and Credentials

* **M.Sc.** (Microbiology - Major), **2013**

College of Basic Science and Humanities

*Punjab Agricultural University,* Ludhiana(*P.B.*), *INDIA*

C.G.P.A: 7.04/10.00 (70.04%)

* **B.Sc.** (Medical Microbiology), **2009**

Sai Institute of Paramedical and Allied Sciences, Dehradun

*Hemwati Nandan Bahuguna Garhwal University, Srinagar* (*U.K.*)*, INDIA*

C.G.P.A: 6.87/10.00 (68.73%)

* **IELTS Score 7.0**
* **5 days** Hand on training on Microbial systematics at **Microbial Type Culture Collection & Gene Bank (MTCC), Chandigarh** (*P.B.*), *India*; 8th to 12th March2016
* **6 months** internship-cum-training under different departments of **Government Medical College, Jammu** *(J&K), India;* August 2009 to Feb. 2010

# Personal Details

Date of Birth: 11.02.1988

Sex: Female

Marital Status: Married

Nationality: Indian